Organic Chemistry

Major Topics

- Drawing / Naming Compounds

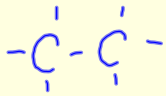
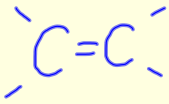
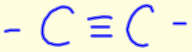
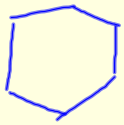
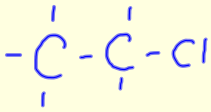
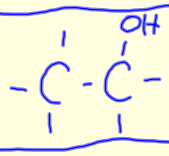
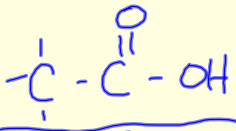
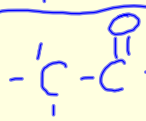
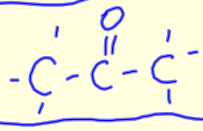
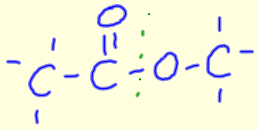
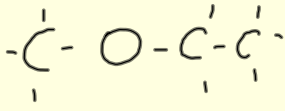
- Isomers

- Reactions

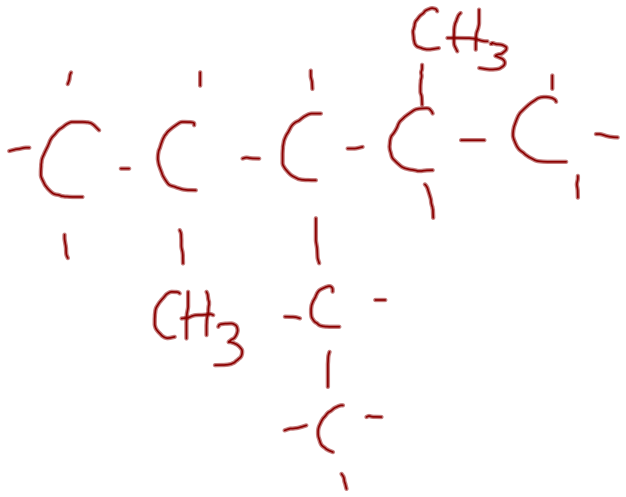
You Should Know...

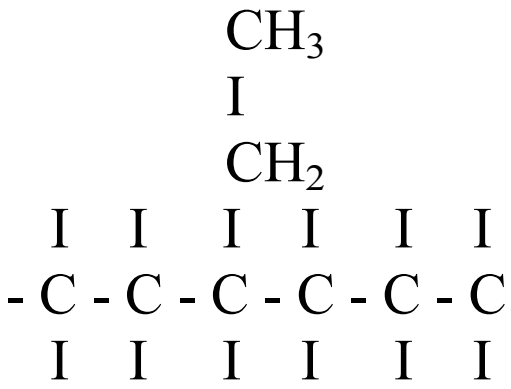
- General formulas of alkanes, alkenes, alkynes, and cyclic compounds (C_nH_{2n+2})
- Aromatic compounds
- Pi bonds
- Characteristics of organic compounds

Families of Organic Compounds (p.294)

Alkanes	ethane	
Alkenes	ethene	
Alkynes	ethyne	
Aromatics and Cyclic Compounds	cyclohexane	
Organic Halides	chloroethane	
Alcohols	ethanol	
Carboxylic Acids	ethanoic acid	
Aldehydes	ethanal	
Ketones	propanone	
Esters	methyl ethanoate	
~~Ether~~	~~ethyl methyl~~ ether	

Draw ethyl-2,4-dimethylpentane

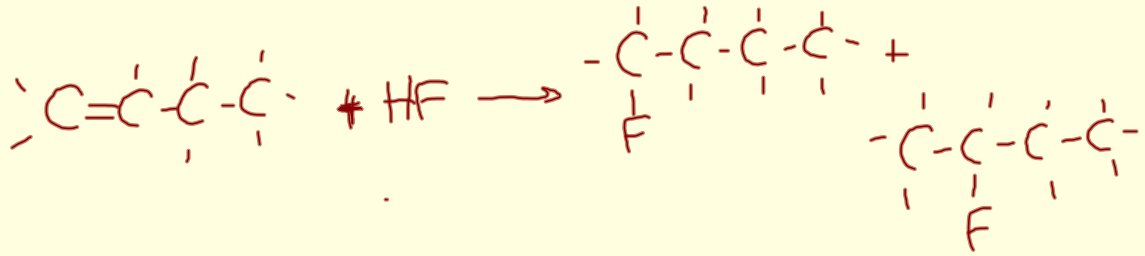




Reactions

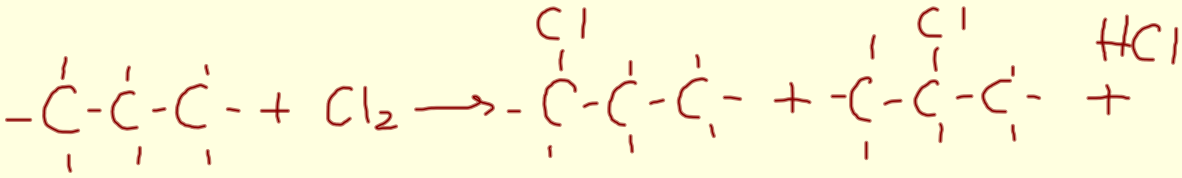
Addition

alkene/alkyne + H_2 or HX or X_2



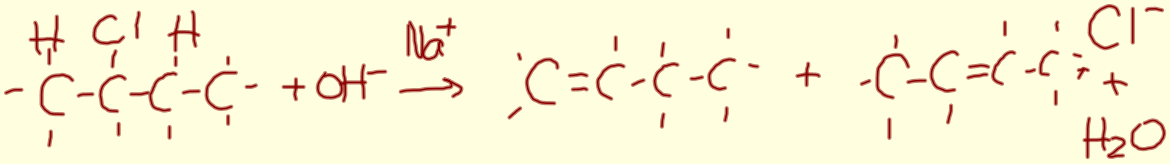
Substitution

alkane/aromatic + halogen



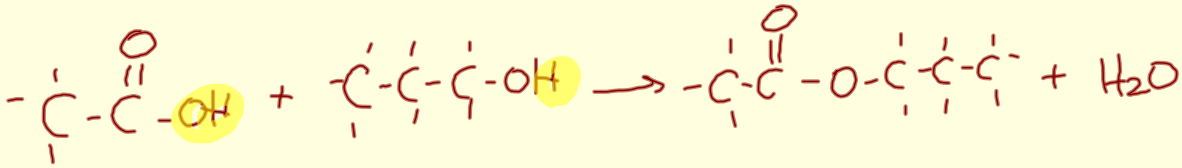
Elimination

alkyl halide + OH-
alcohol + acid



Esterification

carboxylic acid + alcohol



Cracking

Formation